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Amendment and Response  
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REMARKS

In the Office Action, the Examiner required election to one of the following groups:

Group I: Claims 1-13, or  
Group II: Claim 14.

In addition, the Examiner required election to one of the following species within Group I:

Species A: Quantum dots (Claims 2-9 and 12);  
Species B: 2-DEG (Claim 10); or  
Species C: Quantum wire (Claim 11).

The Examiner indicated that Claims 1 and 13 are generic.

In response, Species A within Group I is elected. Claims 1, 2-9, 12 and 13 are readable on the elected species, with Claims 1 and 13 being generic, and are part of the elected group.

CONCLUSION

The Examiner is invited and encouraged to contact the undersigned attorney of record at (404) 685-6799 if such contact will facilitate examination of the application.

Respectfully submitted,



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